

Title (en)
Sterilizing method and apparatus

Title (de)
Verfahren und Vorrichtung zur Sterilisation

Title (fr)
Procédé et appareil de stérilisation

Publication
EP 0692261 B1 20000503 (EN)

Application
EP 95304763 A 19950707

Priority
JP 16001394 A 19940712

Abstract (en)
[origin: EP0692261A2] A sealed vessel (AA) such as a vial having a plug such as a rubber stopper is conveyed and tilted by a slanting device (34, 50) until a medical liquid (32) in the sealed vessel (AA) contacts the inside of the plug (31). The sealed vessel (AA) is moved and simultaneously rotated by a rotating device (35) in the tilted state. The medical liquid (32) in the sealed vessel (AA) is heated at a heating portion (16) by heat energy from an infra-red heater, gas heater or microwave heater, so that the heated medical liquid (32) causes heat sterilization to be carried out the whole inside of the sealed vessel (AA) including the inside of the plug (31) such as the rubber stopper. The sterilization can be completely carried out by providing a heat retaining portion (18), cooling portions (21, 22) and drying portion (23) next to the heating portion (18). An infra-red radiation thermometer (19) is provided at the end of the heating portion (16, 18) to measure the temperature of the medical liquid (32) to ensure that the medical liquid (32) in each sealed vessel reaches the correct temperature to be sterilized adequately. <MATH>

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CPC (source: EP US)
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Cited by
CN105346780A; CN103845748A; CN101810869A; CN112915268A; CN105923213A; CN106115002A; ES2232269A1; EP1447328A3

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